

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/23/2019 04/23/2019	Alberto De Leon

LM Start	0.00	Rating **	A	Issue No.	24
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals		o	o	o
			o	o	o
DWR ID	DWR_RD0404_01_s_2013_24				
Comment Code					
Inspector Comment					
The LMA has a copy of the O & M Manual on file.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	25
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment		o	o	o
			o	o	o
DWR ID	DWR_RD0404_01_s_2013_25				
Comment Code					
Inspector Comment					
LMA has adequate flood fight supplies on hand.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	26
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training		o	o	o
			o	o	o
DWR ID	DWR_RD0404_01_s_2013_26				
Comment Code					
Inspector Comment					
LMA staff have had flood fight training within the last two years.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Right	2.35	04/23/2019 04/23/2019	Alberto De Leon

LM Start	0.00	Rating **	A	Issue No.	30
LM End	2.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.942171 °	37.920337 °	
			-121.345177 °	-121.318377 °	
DWR ID	DWR_RD0404_01_s_2019_30				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Annual vegetation is well maintained.					

Photo 1 of 1 : SP_2019_RD0404_305_30_20190430_00058.jpg



Typical view of vegetation on waterside slope. (Spring 2019)

LM Start	0.00	Rating **	A	Issue No.	28
LM End	2.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.942179 °	37.920333 °	
			-121.345183 °	-121.318376 °	
DWR ID	DWR_RD0404_01_s_2019_28				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Annual vegetation is well maintained.					

Photo 1 of 1 : SP_2019_RD0404_305_28_20190430_00059.jpg



Typical view of vegetation on landside slope. (Spring 2019)

LM Start	0.40	Rating **	M	Issue No.	6
LM End	0.41	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR Erosion Survey		37.939534 °	37.939534 °	
			-121.339562 °	-121.339562 °	
DWR ID	RD0404U01RM41.05				
Comment Code					
Inspector Comment					
09/13/2017: The erosion is located between two protected levee sections. [2017 Site ID:RD0404U01RM41.05]					

Photo 1 of 3 : SP_2019_RD0404_305_6_20190313_00001.jpg



Front view of the erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Right	2.35	04/23/2019 04/23/2019	Alberto De Leon

LM Start	0.40	Rating **	M	Issue No.	6 (cont)
LM End	0.41	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR Erosion Survey		37.939534 °	37.939534 °	
			-121.339562 °	-121.339562 °	
DWR ID	RD0404U01RM41.05				
Comment Code					
Inspector Comment					
09/13/2017: The erosion is located between two protected levee sections. [2017 Site ID:RD0404U01RM41.05]					

Photo 2 of 3 : SP_2019_RD0404_305_6_20190313_00002.jpg



Front of the erosion.

LM Start	0.40	Rating **	M	Issue No.	6 (cont)
LM End	0.41	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP_2019_RD0404_305_6_20190313_00003.jpg



Looking downstream at the erosion site.

LM Start	0.75	Rating **	M	Issue No.	7
LM End	0.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.937758 °	37.937758 °	
			-121.334149 °	-121.334149 °	
DWR ID	DWR_RD0404_01_s_2012_7				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/23/2019 04/23/2019	Alberto De Leon

LM Start	0.89	Rating **	A/W	Issue No.	17
LM End	0.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.936159°	37.936159°	
			-121.332711°	-121.332711°	
DWR ID	DWR_RD0404_01_f_2012_17				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	0.95	Rating **	A/W	Issue No.	2
LM End	0.95	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.935990°	37.935990°	
			-121.331600°	-121.331600°	
DWR ID	DWR_RD0404_01_s_2012_2				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries are partially blocking the visibility.					

No Photos

LM Start	0.98	Rating **	C	Issue No.	42
LM End	0.98	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.935918°	37.935918°	
			-121.331032°	-121.331032°	
DWR ID	DWR_RD0404_01_s_2017_42				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/23/2019 04/23/2019	Alberto De Leon

LM Start	1.35	Rating **	M	Issue No.	100
LM End	1.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.931945 °	37.931945 °	
			-121.327150 °	-121.327150 °	
DWR ID	DWR_RD0404_01_s_2012_100				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP_2019_RD0404_305_100_20190313_00020.jpg



Looking northwest at untrimmed trees on waterward slope.

LM Start	1.44	Rating **	M	Issue No.	11
LM End	1.46	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR Erosion Survey		37.930450 °	37.930450 °	
			-121.327450 °	-121.327450 °	
DWR ID	RD0404U01RM42.02				
Comment Code					
Inspector Comment					
09/13/2017: No significant change observed. 07/25/2016: No significant change observed. 06/24/2015: No significant change observed. 06/19/2014: A series of scarp erosions have been found on the lower levee slope and at the levee toe. [2017 Site ID:RD0404U01RM42.02]					

Photo 1 of 2 : SP_2019_RD0404_305_11_20190313_00005.jpg



Front view of the erosion.

LM Start	1.44	Rating **	M	Issue No.	11 (cont)
LM End	1.46	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2019_RD0404_305_11_20190313_00006.jpg



Close view of the erosion. Note the protection on the lower levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/23/2019 04/23/2019	Alberto De Leon

LM Start	1.50	Rating **	C	Issue No.	27
LM End	1.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.896544 °	37.896544 °	
			-121.327121 °	-121.327121 °	
DWR ID	DWR_RD0404_01_f_2016_27				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	1.70	Rating **	A/W	Issue No.	29
LM End	1.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.927517 °	37.926632 °	
			-121.325515 °	-121.324868 °	
DWR ID	DWR_RD0404_01_s_2015_29				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Dense untrimmed trees are on the waterward slope. This is an Army Corp veg site. Tree and woody vegetation was planted by DWR but not being maintained according to the agreement.					

Photo 1 of 2 : SP_2019_RD0404_305_29_20190313_00014.jpg



Looking north at dense vegetation on waterward slope.

LM Start	1.70	Rating **	A/W	Issue No.	29 (cont)
LM End	1.77	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2019_RD0404_305_29_20190313_00015.jpg



Looking south at dense vegetation on waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/23/2019 04/23/2019	Alberto De Leon

LM Start	2.00	Rating **	U	Issue No.	33
LM End	2.00	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.923673 °	37.923673 °	
			-121.323015 °	-121.323015 °	
DWR ID	DWR_RD0404_01_s_2016_33				
Comment Code					
TR : Tree or limb					
Inspector Comment					
There is a dead tree on the waterward slope that needs to be removed.					

Photo 1 of 1 : SP_2019_RD0404_305_33_20190313_00016.jpg



Looking west at dead tree on waterward slope.

LM Start	2.01	Rating **	M	Issue No.	16
LM End	2.01	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		37.923470 °	37.923470 °	
			-121.322978 °	-121.322978 °	
DWR ID	DWR_RD0404_01_f_2013_16				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
There is slope damage due to foot traffic.					

Photo 1 of 2 : SP_2019_RD0404_305_16_20190313_00008.jpg



Looking west at slope damage due to foot traffic.

LM Start	2.01	Rating **	M	Issue No.	16 (cont)
LM End	2.01	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2019_RD0404_305_16_20190313_00009.jpg



Looking southwest at slope damage due to foot traffic.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	04/23/2019 04/23/2019	Alberto De Leon

LM Start	2.08	Rating **	C	Issue No.	13
LM End	2.08	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.922669°	37.922669°	
			-121.322272°	-121.322272°	
DWR ID	DWR_RD0404_01_f_2012_13				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	2.14	Rating **	C	Issue No.	22
LM End	2.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.922040°	37.922040°	
			-121.321446°	-121.321446°	
DWR ID	DWR_RD0404_01_f_2017_22				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	2.25	Rating **	U	Issue No.	31
LM End	2.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.921089°	37.921089°	
			-121.319880°	-121.319880°	
DWR ID	DWR_RD0404_01_s_2019_31				
Comment Code					
TR : Tree or limb					
Inspector Comment					
There is a broken tree limb on the landside slope impeding access for flood fighting.					

Photo 1 of 1 : SP_2019_RD0404_305_31_20190430_00060.jpg



Broken large tree limb on landside slope, District Engineer is aware and has scheduled removal. (Spring 2019)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	04/23/2019 04/23/2019	Alberto De Leon

LM Start	0.00	Rating **	A	Issue No.	9
LM End	1.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.920338 °	37.917284 °	
			-121.318367 °	-121.291740 °	
DWR ID	DWR_RD0404_02_s_2019_9				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Annual vegetation is well maintained.					



LM Start	0.00	Rating **	A	Issue No.	10
LM End	1.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.918875 °	37.917284 °	
			-121.316587 °	-121.291740 °	
DWR ID	DWR_RD0404_02_s_2019_10				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Annual vegetation is well maintained.					



LM Start	0.14	Rating **	C	Issue No.	14
LM End	0.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		37.918875 °	37.918875 °	
			-121.316587 °	-121.316587 °	
DWR ID	DWR_RD0404_02_f_2017_14				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion occurred winter 2017. Erosion has been repaired early 2019.					

No Photos

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	04/23/2019 04/23/2019	Alberto De Leon

LM Start	0.16	Rating **	M	Issue No.	11
LM End	0.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.918671 °	37.919525 °	
			-121.316367 °	-121.311193 °	
DWR ID	DWR_RD0404_02_s_2012_11				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Grouting program is being used but has not been effective.					

Photo 1 of 3 : SP_2019_RD0404_306_11_20190313_00001.jpg



Looking east at large rodent hole on landward slope.

LM Start	0.16	Rating **	M	Issue No.	11 (cont)
LM End	0.48	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : SP_2019_RD0404_306_11_20190313_00002.jpg



Looking southwest at several rodent holes on landward slope.

LM Start	0.16	Rating **	M	Issue No.	11 (cont)
LM End	0.48	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : SP_2019_RD0404_306_11_20190522_00027.jpg



View of landside slope with multiple rodent holes. Animal control/bait program not effective. (Spring 2019)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 02 French Camp Slough	Right	1.75	04/23/2019 04/23/2019	Alberto De Leon

LM Start	0.58	Rating **	M	Issue No.	24
LM End	0.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.919223 °	37.919223 °	
			-121.309490 °	-121.309490 °	
DWR ID	DWR_RD0404_02_s_2017_24				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	0.68	Rating **	U	Issue No.	21
LM End	1.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.919245 °	37.916383 °	
			-121.307705 °	-121.302802 °	
DWR ID	DWR_RD0404_02_s_2016_21				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : SP_2019_RD0404_306_21_20190313_00009.jpg



Looking northeast at large rodent hole on landward slope.

LM Start	0.68	Rating **	U	Issue No.	21 (cont)
LM End	1.08	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2019_RD0404_306_21_20190313_00010.jpg



Looking east at large rodent hole on landward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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